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GM H2 Overview

- Research Findings
- Goals
- Partnerships
- Investment
- H2 Roadmap

GM H2 Overview

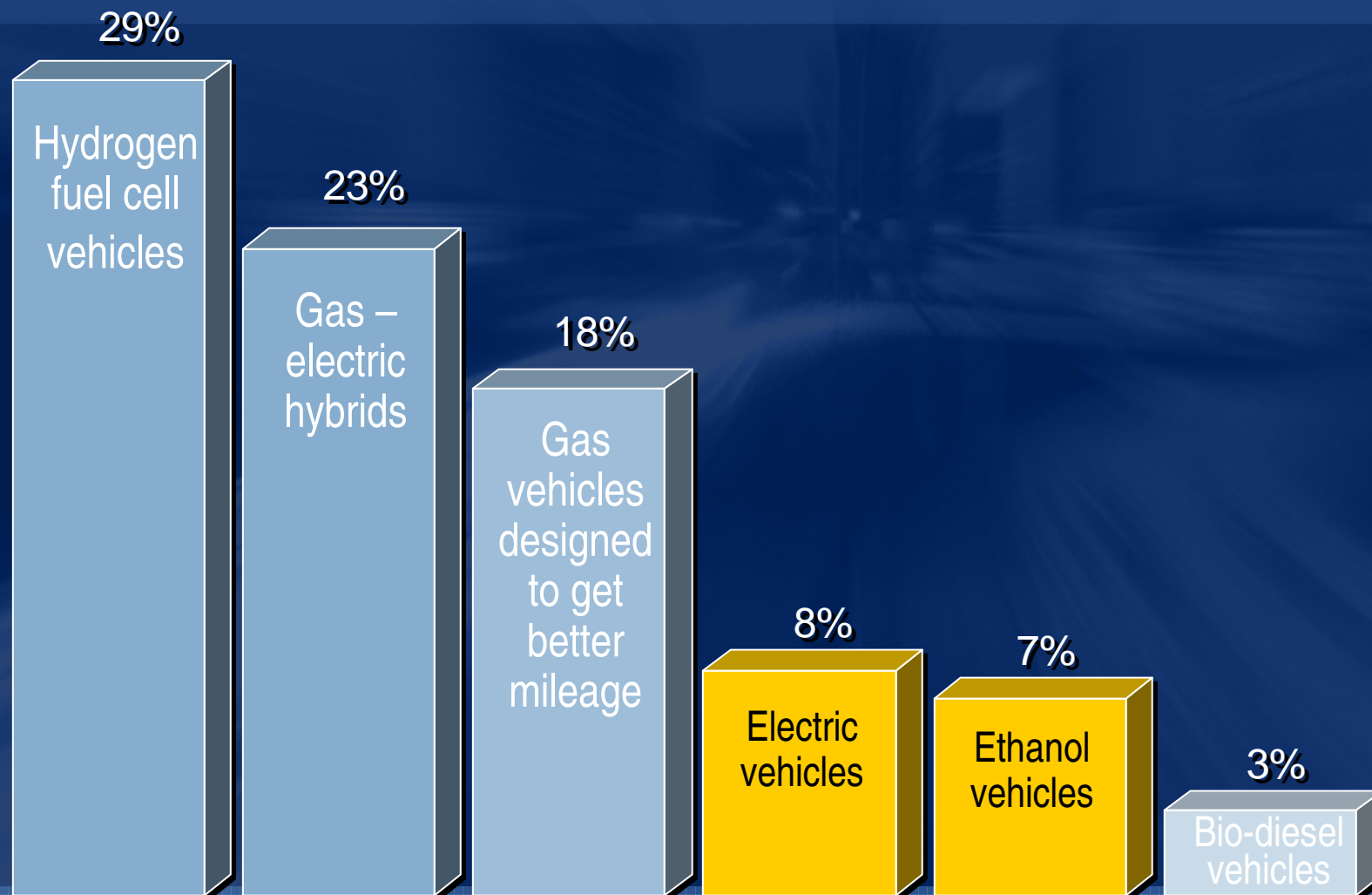
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Peter Hart Research Associates Survey

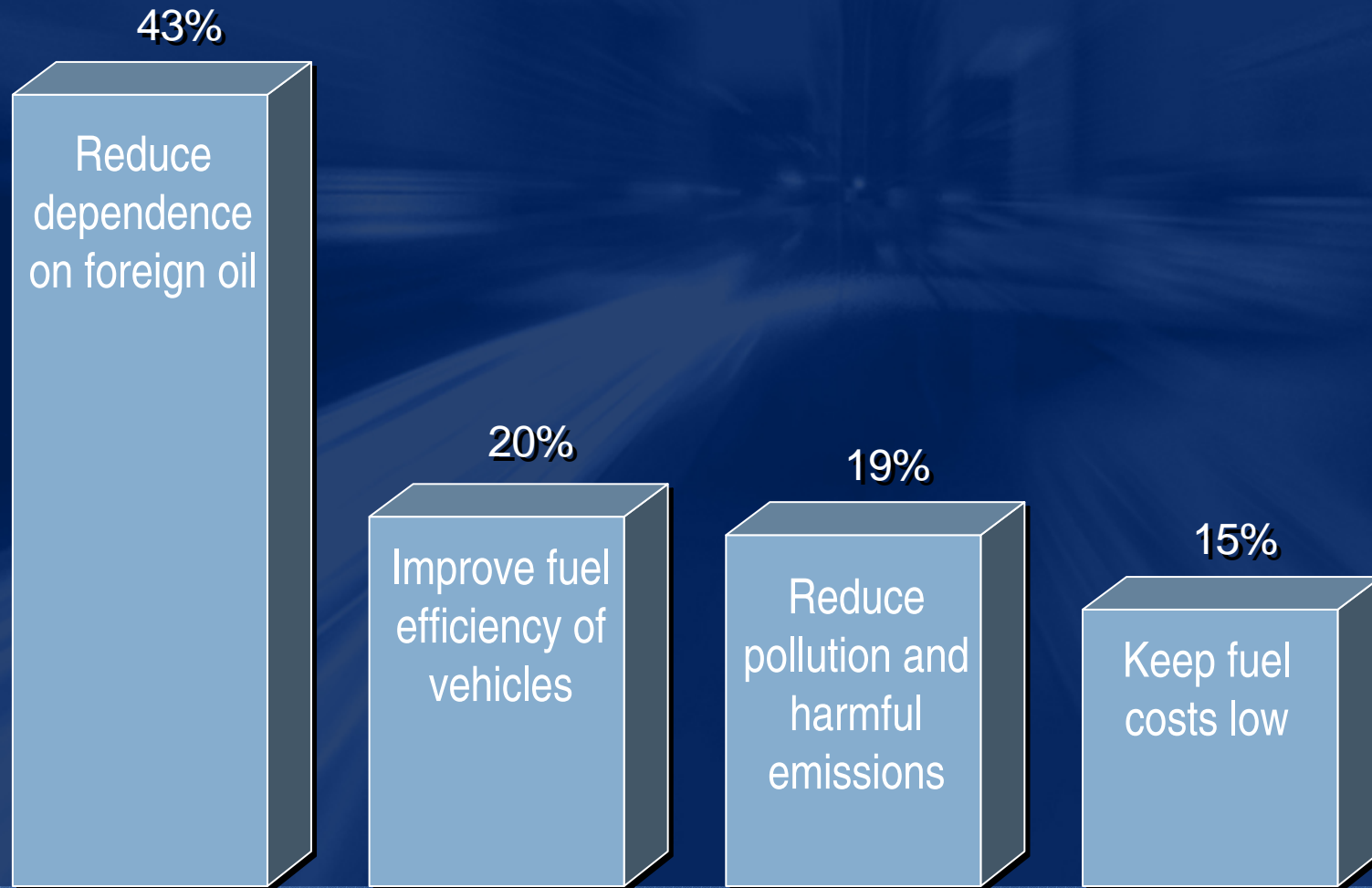
On behalf of GM, Peter D. Hart Research Associates conducted a nationwide telephone survey that explored Americans' attitudes toward U.S. energy policy and emerging automotive technologies:

- 1,004 adults
- Conducted June 17-20, 2005
- Has an overall margin of error of +3.1%.

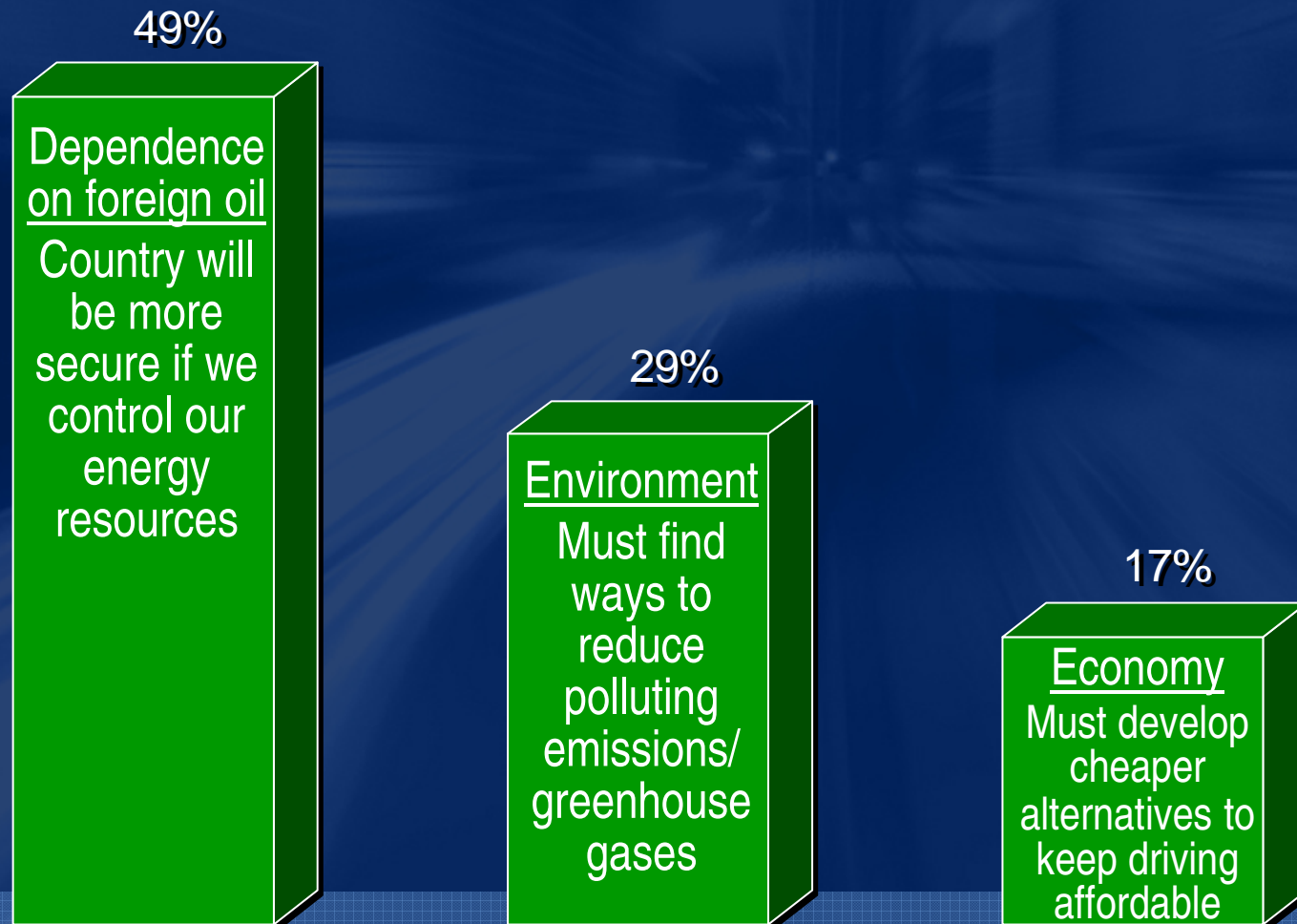
Best Long-Term Solution



Top Priorities For U.S. Energy Policy

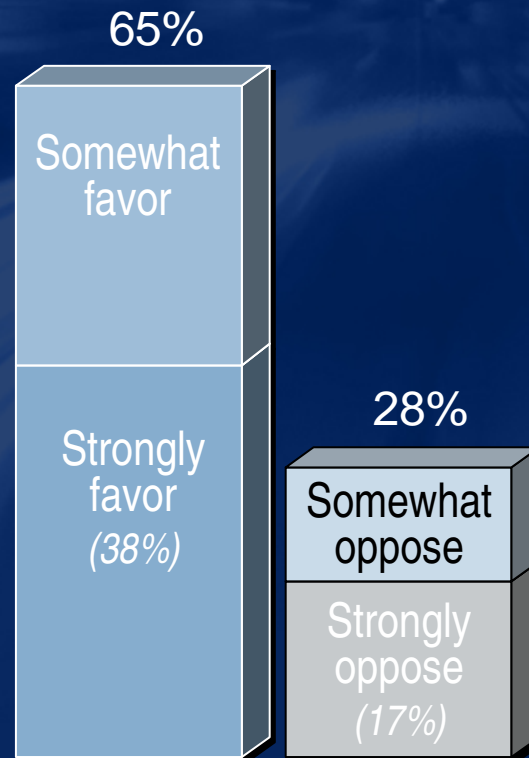


Reasons For New Automotive Technology



Government Commitment To Gas-To-Hydrogen Transformation

Support for U.S. government making a funding commitment to transform the auto industry into a hydrogen-based system



36% favor, 55% oppose increasing the gas tax to fund the effort.

Survey Summary

- Hydrogen fuel cell vehicles hold the most promise
- Broad support for continued partnership between government and industry

GM's Goal

To develop hydrogen fuel cell vehicles that will ultimately remove the automobile – and transportation in general – from the environmental debate.

SEQUEL



GM Research Partners

- Hydrogen storage advances with two key research partners:
 - Sandia National Laboratory in Livermore
 - Hughes Research Laboratories in Malibu

GM's Investment in Hydrogen

- General Motors and U.S. Department of Energy have signed a five-year, \$88-million agreement to build a 40-vehicle fuel cell fleet and further develop the technology.
- GM will spend \$44 million to deploy fuel cell vehicle demonstration fleets in California, Washington, New York, and Michigan.
- 600 people working on fuel cell technology around the world, including at GM's Advanced Technology Center in Torrance



GM Partners for Hydrogen

- Shell Hydrogen
- Quantum Technologies – Irvine, CA
- U.S. Department of Defense

Military Fuel Cell Silverado



California Collaboration



California Fuel Cell
Partnership

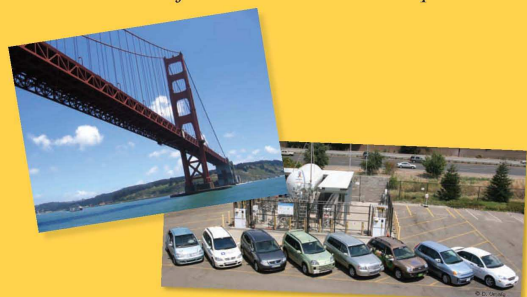
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CA H2 Highway
Network

CaFCP Road Rally

Road Rally 2005

*Presented by
the California Fuel Cell Partnership*



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Thursday September 29 - Saturday October 1

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“Fueling the Future”

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Berkeley, Oakland, San Jose,
San Carlos, San Francisco

Sept. 29 to Oct. 1

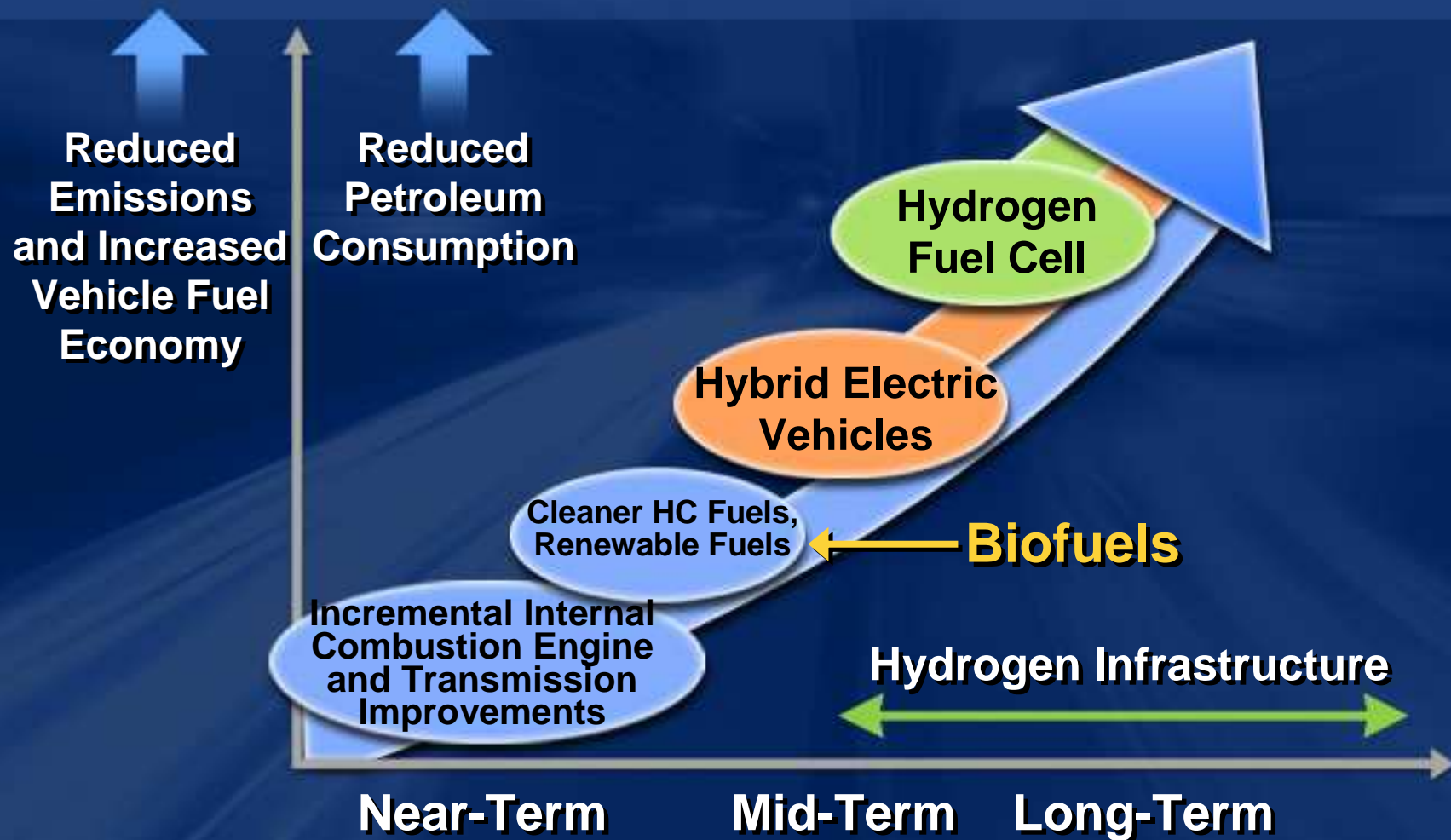
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GM's Hydrogen Roadmap

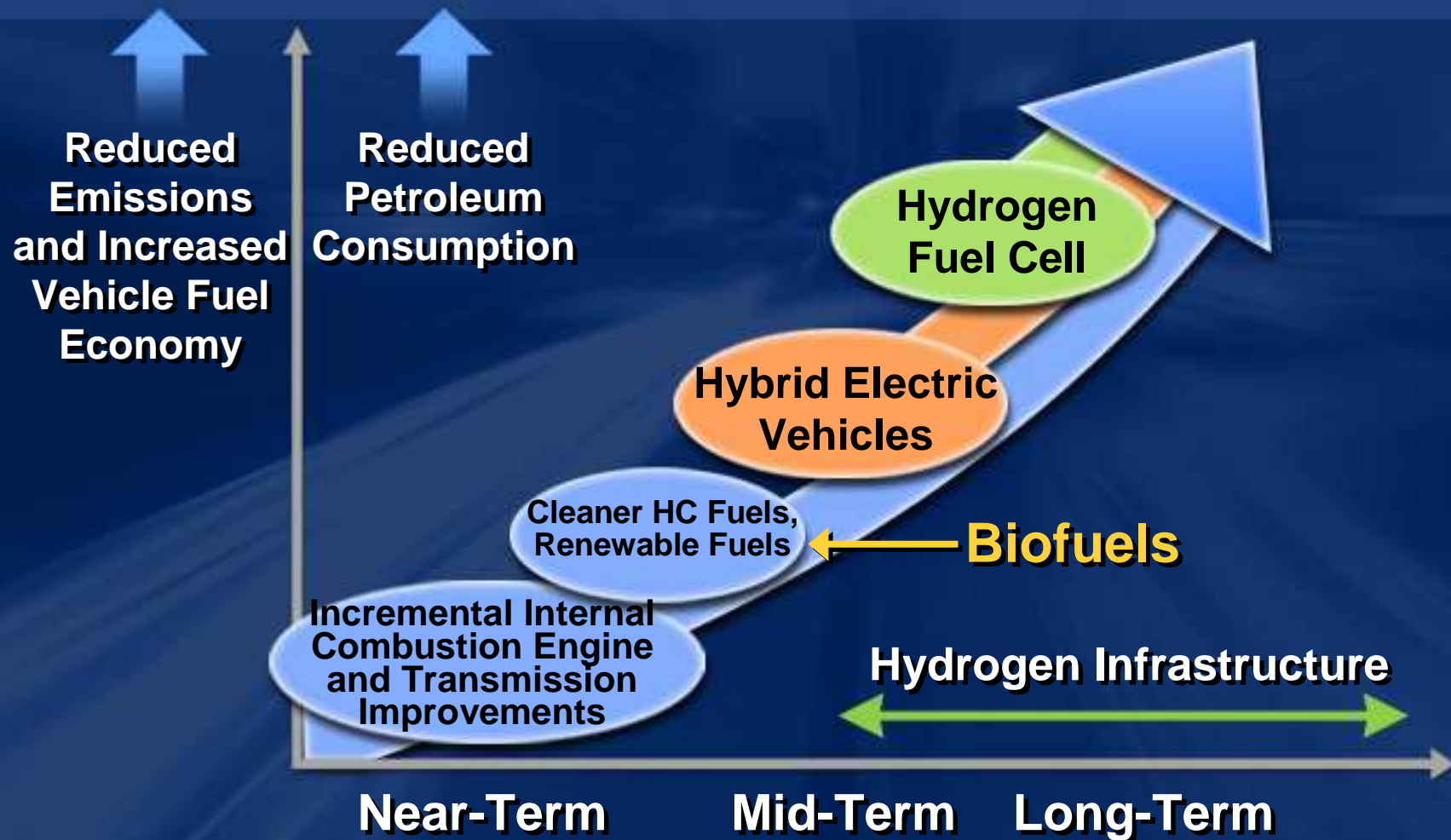
By 2010 GM will design and validate a fuel cell propulsion system that is:

- *Competitive with current internal combustion engines in terms of performance and durability*
- *Can be built affordably in high volume*

Advanced Propulsion Technology Strategy



Advanced Propulsion Technology Strategy





HYDROGEN

Fuel Cell Vehicles





HYDROGEN

Fuel Cell Vehicles





